

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM

the specification of which

is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shofri, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Stephen L. Abbott

Inventor's signature Stephen L. Abbott

Date 01-19-01

Residence (city) New Canaan, (state or country) Connecticut

Citizenship U.S.A.

Post Office Address: 377 Main Street, #2, New Canaan, CT 06840,
 U.S.A.

Full name of joint
 Inventor, if any William E. Dickey

Second Inventor's signature _____

Date _____

Residence (city) Wappingers Falls, (state or country) New York

Citizenship U.S.A.

Post Office Address: 193 Town View Drive, Wappinger Falls, NY
 12590, U.S.A.

*75 Oak Street
 Wellesley, MA 02482*

SLA 01-19-01

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____ , (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM,
the specification of which

is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018 to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914, Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg, Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No. 32,053, David M. Shof, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Full name of joint

Inventor, if any William E. Dickey

Inventor's signature _____

Second Inventor's signature _____

Date 2-3-2001

Residence (city) New Canaan, (state or country) Connecticut
 Citizenship U.S.A.

Residence (city) Wappingers Falls, (state or country) New York
 Citizenship U.S.A.

Post Office Address: 377 Main Street, #2, New Canaan, CT 06840, U.S.A.

Post Office Address: 193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____ , (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM
 the specification of which

is attached hereto
 _____ was filed on _____ as Application Serial No. _____
 _____ and was amended on _____ (if applicable).
 _____ I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed

PRIOR APPLICATION(S)		Priority claimed		
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914, Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg, Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No. 32,053, David M. Shofsi, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Full name of joint
 Inventor, if any William E. Dickey

Inventor's signature _____
 Date _____
 Residence (city) New Canaan, (state or country) Connecticut
 Citizenship U.S.A.
 Post Office Address: 377 Main Street, #2, New Canaan, CT 06840, U.S.A.

Second Inventor's signature _____
 Date _____
 Residence (city) Wappingers Falls, (state or country) New York
 Citizenship U.S.A.
 Post Office Address: 193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature 
Date 2-1-2001
Residence (city) Shell Lake, (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester, (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge, (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park, (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston, (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____, (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM
 the specification of which

is attached hereto
 _____ was filed on _____ as Application Serial No. _____
 _____ and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shofi, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Full name of joint
 Inventor, if any William E. Dickey

Inventor's signature _____
 Date _____
 Residence (city) New Canaan, (state or country) Connecticut
 Citizenship U.S.A.
 Post Office Address: 377 Main Street, #2, New Canaan, CT 06840, U.S.A.

Second Inventor's signature _____
 Date _____
 Residence (city) Wappingers Falls, (state or country) New York
 Citizenship U.S.A.
 Post Office Address: 193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake, (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester, (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature (Signature)
Date 01/12/2001
Residence (city) Cambridge, (state or country) Massachusetts
Citizenship U.S.A. Republic of Korea (South)
Post Office Address: 812 Memorial Drive, Apt# 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park, (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston, (state or country) Massachusetts
Citizenship U.S.A. Thailand
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____, (state or country) _____
Citizenship _____
Post Office Address: _____

2025 RELEASE UNDER E.O. 14176

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM

the specification of which

is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shof, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Full name of joint
 Inventor, if any William E. Dickey

Inventor's signature _____
 Date _____
 Residence (city) New Canaan, (state or country) Connecticut
 Citizenship U.S.A.
 Post Office Address: 377 Main Street, #2, New Canaan, CT 06840, U.S.A.

Second Inventor's signature _____
 Date _____
 Residence (city) Wappingers Falls, (state or country) New York
 Citizenship U.S.A.
 Post Office Address: 193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature Larry M Leibovich
Date 19 JAN 2001
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakomolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____ , (state or country) _____
Citizenship _____
Post Office Address: _____

009830320133 0032014400

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM

the specification of which

is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018 to insert here in parentheses (Application number _____, filed _____) the filing date and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914, Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg, Registration No. 41,500, Louis J. Perello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No. 32,053, David M. Shofi, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first Inventor <u>Steve Abbott</u>	Full name of joint Inventor, if any <u>William E. Dickey</u>
Inventor's signature _____	Second Inventor's signature _____
Date _____	Date _____
Residence (city) <u>New Canaan</u> , (state or country) <u>Connecticut</u>	Residence (city) <u>Wappingers Falls</u> , (state or country) <u>New York</u>
Citizenship <u>U.S.A.</u>	Citizenship <u>U.S.A.</u>
Post Office Address: <u>377 Main Street, #2, New Canaan, CT 06840, U.S.A.</u>	Post Office Address: <u>193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.</u>

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake, (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871,
U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester, (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085
U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020,
U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge,
MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature *John W. O'Conor*
Date 08/26/2005
Residence (city) Hyde Park, (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY
12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakarnolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____, (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM

the specification of which

X is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Perello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shof, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first Inventor <u>Steve Abbott</u>	Full name of joint Inventor, if any <u>William E. Dickey</u>
Inventor's signature _____	Second Inventor's signature _____
Date _____	Date _____
Residence (city) <u>New Canaan</u> , (state or country) <u>Connecticut</u>	Residence (city) <u>Wappingers Falls</u> , (state or country) <u>New York</u>
Citizenship <u>U.S.A.</u>	Citizenship <u>U.S.A.</u>
Post Office Address: <u>377 Main Street, #2, New Canaan, CT 06840, U.S.A.</u>	Post Office Address: <u>193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.</u>

Full name of joint
Inventor, if any William F. Holden, Jr.

Full name of joint
Inventor, if any Yung-Joon Lee

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor Larry M. Leibovich

Full name of joint
Inventor, if any Kevin P. O'Connor

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln. SW., Rochester, MN 55902, U.S.A.

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Full name of joint
Inventor, if any Pitpong Veerakamolmal

Seventh Inventor's signature Joseph V. Stehle
Date Jan 16, 2011
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Full name of joint
Inventor, if any _____

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Tenth Inventor's signature _____
Date _____
Residence (city) _____ , (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM

the specification of which

is attached hereto

was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).

I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)

			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shofi, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first
 Inventor Steve Abbott

Full name of joint
 Inventor, if any William E. Dickey

Inventor's signature _____

Second Inventor's signature _____

Date _____

Date _____

Residence (city) New Canaan, (state or country) Connecticut

Residence (city) Wappingers Falls, (state or country) New York

Citizenship U.S.A.

Citizenship U.S.A.

Post Office Address: 377 Main Street, #2, New Canaan, CT 06840, U.S.A.

Post Office Address: 193 Town View Drive, Wappingers Falls, NY 12590, U.S.A.

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature _____
Date _____
Residence (city) Duncannon , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature Pitipong Veerakamolmal
Date 01/16/2021
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A. THAILAND 01/16/2021
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____ , (state or country) _____
Citizenship _____
Post Office Address: _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:
ECONOMIC SUPPLY OPTIMIZATION SYSTEM
 the specification of which

is attached hereto
 was filed on _____ as Application Serial No. _____
 and was amended on _____ (if applicable).
 I hereby authorize and request our attorney, Davidson, Davidson & Kappel, LLC. of 485 Seventh Avenue, New York, New York 10018
 to insert here in parentheses (Application number _____, filed _____) the filing date
 and application number of said application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any
 amendment referred to above.

I acknowledge the duty to disclose all information which is known to me to be material to the patentability of this application as defined in Title 37,
 Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign and/or provisional application(s) for patent or
 inventor's certificate listed below and have also identified below any foreign and/or provisional application for patent or inventor's certificate having
 a filing date before that of the application on which priority is claimed.

PRIOR APPLICATION(S)			Priority claimed	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter
 of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title
 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a)
 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial Number)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
_____	_____	_____

As a named inventor I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and
 Trademark Office connected therewith as follows:

Manny W. Schecter, Registration No. 31,722, Lauren C. Bruzzone, Registration No. 35,082, Christopher A. Hughes, Registration No. 26,914,
 Edward A. Pennington, Registration No. 32,588, John E. Hoel, Registration No. 26,279, Joseph C. Redmond, Jr., Registration No. 18,753, Richard
 M. Ludwin, Registration No. 33,010, Douglas W. Cameron, Registration No. 31,596, Stephen C. Kaufman, Registration No. 29,551, Marian
 Underweiser, Registration No. 46,134, Wayne L. Ellenbogen, Registration No. 43,602, Robert M. Trepp, Registration No. 25,933, Louis P. Herzberg,
 Registration No. 41,500, Louis J. Percello, Registration No. 33,206, Paul J. Otterstedt, Registration No. 37,411, Daniel P. Morris, Registration No.
 32,053, David M. Shof, Registration No. 39,835 and Marc A. Ehrlich, Registration No. 39,966.

Send correspondence to: outside counsel attorney
 Direct Telephone Calls to: outside counsel attorney

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to
 be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or
 imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of
 the application or any patent issued thereon.

Full name of sole or first Inventor <u>Steve Abbott</u>	Full name of joint Inventor, if any <u>William E. Dickey</u>
Inventor's signature _____ Date _____	Second Inventor's signature _____ Date _____
Residence (city) <u>New Canaan</u> , (state or country) <u>Connecticut</u> Citizenship <u>U.S.A.</u>	Residence (city) <u>Wappingers Falls</u> , (state or country) <u>New York</u> Citizenship <u>U.S.A.</u>
Post Office Address: <u>377 Main Street, #2, New Canaan, CT 06840, U.S.A.</u>	Post Office Address: <u>193 Town View Drive, Wappinger Falls, NY 12590, U.S.A.</u>

Full name of joint
Inventor, if any William F. Holden, Jr.

Third Inventor's signature _____
Date _____
Residence (city) Shell Lake , (state or country) Wisconsin
Citizenship U.S.A.
Post Office Address: 23821 Azorah Lane, Shell Lake, WI 54871, U.S.A.

Full name of joint
Inventor Larry M. Leibovich

Fifth Inventor's signature _____
Date _____
Residence (city) Rochester , (state or country) Minnesota
Citizenship U.S.A.
Post Office Address: 4015 Windsor Hills Ln SW, Rochester, MN 55902, U.S.A.

Full name of joint
Inventor, if any Joseph V. Stehle

Seventh Inventor's signature _____
Date _____
Residence (city) Trafford , (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address 312 Meadowbrook Road, Trafford, PA, 15085 U.S.A.

Full name of joint
Inventor, if any Ronald A. Warfel

Ninth Inventor's signature Ronald A. Warfel
Date 1-22-2001
Residence (city) Duncannon, (state or country) Pennsylvania
Citizenship U.S.A.
Post Office Address: 124 Barley Drive, Duncannon, PA 17020, U.S.A.

Full name of joint
Inventor, if any Yung-Joon Lee

Fourth Inventor's signature _____
Date _____
Residence (city) Cambridge , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 812 Memorial Drive, Apt # 1102, Cambridge, MA 02139

Full name of joint
Inventor, if any Kevin P. O'Connor

Sixth Inventor's signature _____
Date _____
Residence (city) Hyde Park , (state or country) New York
Citizenship U.S.A.
Post Office Address: 15 Stoutenburgh Drive, Hyde Park, NY 12538, U.S.A.

Full name of joint
Inventor, if any Pitipong Veerakamolmal

Eighth Inventor's signature _____
Date _____
Residence (city) Boston , (state or country) Massachusetts
Citizenship U.S.A.
Post Office Address: 41 Radnor Road, Boston, MA 02135, U.S.A.

Full name of joint
Inventor, if any _____

Tenth Inventor's signature _____
Date _____
Residence (city) _____, (state or country) _____
Citizenship _____
Post Office Address: _____